

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/001668

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E02B17/08 B23K31/02 B23K37/00 B23K9/02 B23K37/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E02B B23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 2004/004959 A (PRIMOT LOUIS ;TECHNIP FRANCE (FR); THOMAS PIERRE-ARMAND (FR)) 15 January 2004 (2004-01-15)	1,4,5,8, 9
P,A	abstract; figures page 5, line 5 - page 10, line 25	10,11
A	EP 0 645 496 A (TECHNIP GEOPRODUCTION) 29 March 1995 (1995-03-29) the whole document	1,7,8
A	FR 2 719 615 A (TECHNIP GEOPRODUCTION) 10 November 1995 (1995-11-10) page 5, line 32 - page 7, line 9; figures 3-6 page 7, line 28 - line 31	1,7,8, 10,11
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

3 December 2004

Date of mailing of the international search report

14/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Isailovski, M

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/001668

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 719 611 A (TECHNIP GEOPRODUCTION) 10 November 1995 (1995-11-10) page 7, line 7 - line 10; figures 4,5 -----	1,8
A	US 3 967 457 A (LOVIE PETER M) 6 July 1976 (1976-07-06) column 5, line 24 - column 6, line 49; figures 3,7,8 -----	1,8
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 319 (M-439), 14 December 1985 (1985-12-14) -& JP 60 154875 A (NIPPON KOKAN KK), 14 August 1985 (1985-08-14) abstract -----	10,11
A	DE 11 04 641 B (RICHARD C STANLEY) 13 April 1961 (1961-04-13) the whole document -----	10,11

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/001668

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004004959	A	15-01-2004	FR 2841807 A1 WO 2004004959 A2	09-01-2004 15-01-2004
EP 0645496	A	29-03-1995	FR 2710667 A1 BR 9403886 A DE 69400471 D1 DE 69400471 T2 DK 645496 T3 EP 0645496 A1 ES 2094629 T3 FI 944479 A JP 3536223 B2 JP 7150881 A NO 943564 A OA 9993 A SG 49327 A1	07-04-1995 30-05-1995 10-10-1996 30-01-1997 24-02-1997 29-03-1995 16-01-1997 29-03-1995 07-06-2004 13-06-1995 29-03-1995 29-03-1996 18-05-1998
FR 2719615	A	10-11-1995	FR 2719615 A1 FR 2719611 A1	10-11-1995 10-11-1995
FR 2719611	A	10-11-1995	FR 2719615 A1 FR 2719611 A1 EP 0693593 A1 FI 953473 A JP 3507930 B2 JP 8120658 A NO 952818 A US 5607259 A	10-11-1995 10-11-1995 24-01-1996 20-01-1996 15-03-2004 14-05-1996 22-01-1996 04-03-1997
US 3967457	A	06-07-1976	NONE	
JP 60154875	A	14-08-1985	JP 1630373 C JP 2052586 B	20-12-1991 14-11-1990
DE 1104641	B	13-04-1961	NONE	